

**Part 1            General**

**1.1                DEFINITIONS**

- .1    Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade environment aesthetically, culturally and/or historically.
- .2    Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction. Control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.

**1.2                FIRES**

- .1    Fires and burning of rubbish on site not permitted.

**1.3                DISPOSAL OF WASTES**

- .1    The contractor shall develop and implement a program of waste from cleaning, demolition and excavation.

The contractor shall prepare complete daily and weekly report site transportation, recycling and disposal as the case cumulative magazine and copy of the supporting documents. The contractor shall deliver to the Departmental representative, a certificate representing the non-used material are placed in the site of disposal shall be approved by the Quebec ministère du Développement durable, de l'Environnement et des Parcs (MDDEP) at the end of the work, a full report relating to the provision for all type of material encounter.

- .2    Do not bury rubbish and waste materials on site.
- .3    Do not dispose of waste or volatile materials, such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers.
- .4    Gradually dispose of the non-reusable material from demolition off work site to authorized sites.
- .5    Waste materials from demolition (non reusable in the new structure) shall be recycled if possible, and if not, the site of disposal shall be approved by the Quebec ministère du Développement durable, de l'Environnement et des Parcs (MDDEP). Upon request, the MDDEP can provide information on the active sites. This includes any dry material, waste or rubbish from demolition or construction.

**1.4                WORK ADJACENT TO WATERWAYS**

- .1    Do not operate construction equipment in waterways.
- .2    Do not use waterway beds for borrow material.

- .3 Do not dump excavated fill, waste material or debris in waterways.
- .4 Equipment maintenance and fuelling of equipment shall be done in location allowed for and where there is no risk of water contamination; any handling of fuel, oil and other contaminants shall be executed under continuous monitoring to avoid all kind of spill.
- .5 Install, if required, storage areas for fuel, oil or other petroleum product in a risk-free location from water discharge located at least 30m away from water.

## **1.5 POLLUTION CONTROL**

- .1 Maintain temporary erosion and pollution control features installed under this contract. Supply and maintain confinement curtain when working in aquatic environment.
- .2 Control emissions from equipment and plant to local authorities' emission requirements.
- .3 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.
- .4 Control emissions from equipment and plant to local authorities emission requirements.
- .5 To use trucks and heavy equipment in good operating condition in order to avoid any leakage.
- .6 Before work commence, all equipment shall be inspected by a certified mechanic to avoid break which could cause hydrocarbon and any contaminants spill. To maintain temporary installations intended to prevent erosion and pollution in virtue of the contract.
- .7 To recover immediately any contaminants accidentally spilled in environment and dispose according to laws and rules in force.
- .8 To have and know to use emergency equipment in the event of accidental hydrocarbon discharge. In case of hydrocarbon spill or other hazardous material spill, Contractor shall notify Departmental Representative and the proper authorities. Recover hydrocarbon and contaminated soils to be disposed of according to laws and rules in force.
- .9 In case of spill of environmental kind, notify Canadian Coast Guard, maritime pollution 1-800-363-4735, Quebec Urgence-Environnement (MSDEP) 1-866-694-5454 and Environment Canada 1-866-283-2333; recover contaminated materials, if appropriate, and dispose of through the lens of a certified company.
- .10 Absorbent materials and hydrocarbon recovering kit shall be kept on site permanently.

## **1.6 NOTIFICATION**

- .1 Departmental Representative will notify Contractor in writing of observed non compliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
- .2 Contractor: after receipt of such notice, inform Departmental Representative of proposed corrective action and take such action for approval by Departmental Representative.
- .3 Departmental Representative will issue stop order of work until satisfactory corrective action has been taken.

- .4 No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

## **1.7 AQUATIC ENVIRONMENT PROTECTION ALONG THE WORKSITE**

- .1 Do not stockpile stones or debris from demolition in aquatic environment and on the bank.
- .2 As work progresses, the Contractor shall clean aquatic environment completely to remove all debris from demolition.
- .3 Contractor shall minimize direct equipment operations in aquatic environment, on the beach and on the bank. Heavy equipment shall at no time circulate in the aquatic environment located outside the limits of work.
- .4 Excavating and pumping of sediments and water inside the piles will produce a temporary sediment suspension. To reduce fines suspension in aquatic environment during piles installation, the following mitigation measures will be applied :
  - .1 To pump sediments and water inside the piles, adopt operational mode proven to minimize loss rate of non decanted materials in natural environment.
  - .2 Forward waters and sediments pumped from the inside of piles to steel bins (dry materials containers) or sedimentation basin for disposal in an approved upland site; waters will be clarified before returning to aquatic environment.
  - .3 Manage excavated material (dry sediments) according to "Soil Protection and Rehabilitation of Contaminated Sites" (MDDEP).
- .5 Restrain machinery traffic on preferential layout within the intervention area and do not circulate outside designated areas. Whenever practical, land equipment used (diggers) shall stay dry.

## **1.8 MATERIEL TRANSPORTATION**

- .1 The transport of materials to the worksite is allowed on public roads Monday to Saturday inclusively, unless otherwise instructed by the authority having jurisdiction. Material transport is prohibited on Sundays and legal holidays.
- .2 The transport of material through municipality may begin at 7:00 a.m. and brought to an end at 6:00 p.m. Transport outside these hours is prohibited.

**END OF SECTION**